



STIC Search Report

EIC 1700

STIC Database Tracking Number: 158245

**TO: Ben Sackey
Location: REM 5B31
Art Unit : 1626
July 19, 2005**

Case Serial Number: 10/677972

**From: Kathleen Fuller
Location: EIC 1700
REMSSEN 4B28
Phone: 571/272-2505
Kathleen.Fuller@uspto.gov**

Search Notes

Access DB# 158245**SEARCH REQUEST FORM**

Scientific and Technical Information Center

Requester's Full Name: BEN SACKETT Examiner #: 73489 Date: 7/5/05
 Art Unit: 1626 Phone Number 302-0704 Serial Number: 10/677,972
 Mail Box and Bldg/Room Location: Rem 5 B3/ Results Format Preferred (circle): PAPER DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

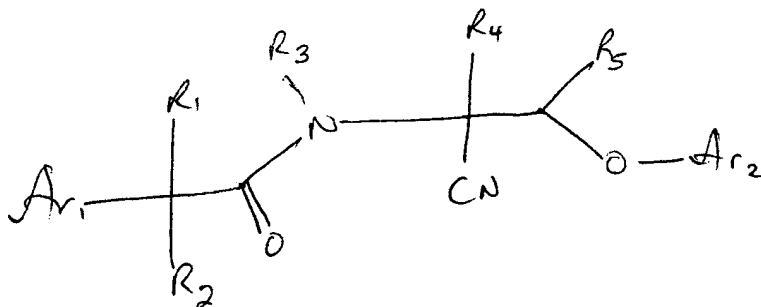
Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Pharmaceutical composition containing aminonitile compounds & use thereof

Inventors (please provide full names): Pierre Ducray et al.

Earliest Priority Filing Date: _____

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*



Ar1 and Ar2 and R1 - R5 are as defined in Table I.

Thanks

STAFF USE ONLY**Type of Search****Vendors and cost where applicable**

Searcher: H. Fuller NA Sequence (#) _____ STN ✓
 Searcher Phone #: _____ AA Sequence (#) _____ Dialog _____
 Searcher Location: _____ Structure (#) 1 Questel/Orbit _____
 Date Searcher Picked Up: _____ Bibliographic _____ Dr.Link _____
 Date Completed: 7/19/05 Litigation _____ Lexis/Nexis _____
 Searcher Prep & Review Time: 20 Fulltext _____ Sequence Systems _____
 Clerical Prep Time: _____ Patent Family _____ WWW/Internet _____
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STRUCTURE FILE UPDATES: 18 JUL 2005 HIGHEST RN 855828-45-4
DICTIONARY FILE UPDATES: 18 JUL 2005 HIGHEST RN 855828-45-4

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*
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added, *
* effective March 20, 2005. A new display format, IDERL, is now *
* available and contains the CA role and document type information. *
*

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Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
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=> file hcaplus
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FILE COVERS 1907 - 19 Jul 2005 VOL 143 ISS 4
FILE LAST UPDATED: 18 Jul 2005 (20050718/ED)

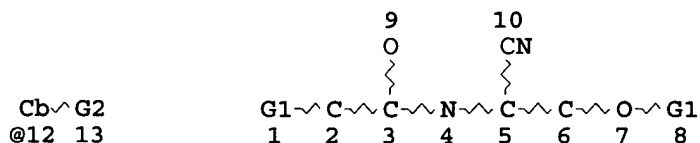
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This file contains CAS Registry Numbers for easy and accurate
substance identification.

KATHLEEN FULLER EIC 1700 REMSON 4B28 571/272-2505

=> d que
L71

STR



71 structures from Query

Cb@11

VAR G1=12/11
 VAR G2=CL/F
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 CONNECT IS E1 RC AT 11
 CONNECT IS E2 RC AT 12
 DEFAULT MLEVEL IS ATOM
 GGCAT IS UNS AT 11
 GGCAT IS UNS AT 12
 DEFAULT ECLEVEL IS LIMITED

GRAPH ATTRIBUTES:
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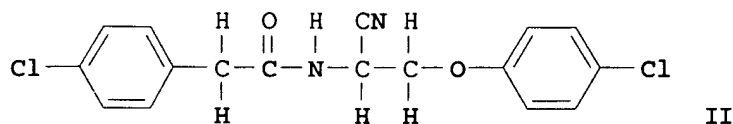
STEREO ATTRIBUTES: NONE
 L73 71 SEA FILE=REGISTRY SSS FUL L71
 L74 4 SEA FILE=HCAPLUS ABB=ON L73

4 CA references

=> d l74 bib abs ind hitstr 1-4

L74 ANSWER 1 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2004:650899 HCAPLUS
 DN 141:173978
 TI Preparation of aminoacetonitrile derivatives as agricultural and horticultural insecticides
 IN Andoh, Nobuharu; Sanpei, Osamu; Sakata, Kazuyuki
 PA Nihon Nohyaku Co., Ltd., Japan
 SO Eur. Pat. Appl., 48 pp.
 CODEN: EPXXDW
 DT Patent
 LA English
 FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 1445251	A1	20040811	EP 2004-10346	19990428
	R: CH, DE, FR, GB, IT, LI				
	EP 953565	A2	19991103	EP 1999-107461	19990428
	EP 953565	A3	20021204		
	EP 953565	B1	20040908		
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO				
PRAI	JP 1998-137806	A	19980501		
	EP 1999-107461	A3	19990428		

OS MARPAT 141:173978
GI

- AB The title compds. Ar1(Q)dC(O)NR3C(CN)R4(CR5R6)aW(CR7R8)bAr2 [I; Ar1, Ar2 = (substituted) Ph, (substituted) phenyloxy, (substituted) phenylacetylene; (substituted) pyridyl and (substituted) naphthyl; Q = CR1R2 (wherein R1, R2 = H, halo, (halo)alkyl, etc.); R3 = H, (halo)alkyl, etc.; R4-R8 = H, halo, (halo)alkyl, etc.; W = O, S, SO2 or NR9 (wherein R9 = H, alkyl); a, b = 0-4; d = 0-1], useful as insecticides, were prepared E.g., a multi-step synthesis of II (starting from 4-chlorophenol and bromoacetaldehyde dimethylacetal), was given. The compds. I were tested against diamond back moth and against smaller tea tortrix (data were given for representative compds. I).
- IC ICM C07C255-26
ICS A01N037-34; C07C317-14; C07D213-82
- CC 25-19 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)
Section cross-reference(s): 5, 27
- ST aminoacetoneitrile prepn agricultural horticultural insecticide
- IT Insecticides
(preparation of aminoacetoneitrile derivs. as agricultural and horticultural insecticides)
- IT 247197-14-4P 247197-20-2P 247197-22-4P
247197-35-9P 247197-37-1P 247197-39-3P
247197-41-7P 247197-43-9P 247197-45-1P
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 444881-92-9P 736172-72-8P 736172-73-9P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

IT 736172-74-0P 736172-75-1P 736172-76-2P
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 736172-94-4P

RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

IT 78-95-5, Chloroacetone 104-01-8, 4-Methoxyphenylacetic acid 106-48-9,
 4-Chlorophenol 637-44-5 1878-66-6, 4-Chlorophenylacetic acid
 7252-83-7, Bromoacetaldehyde dimethylacetal 25026-34-0,
 4-Chlorophenylacetyl chloride 247199-99-1 247200-00-6 247200-01-7

RL: RCT (Reactant); RACT (Reactant or reagent)

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

IT 18859-35-3P 43018-72-0P 227802-36-0P 247199-97-9P 247199-98-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

IT 247197-14-4P 247197-20-2P 247197-22-4P
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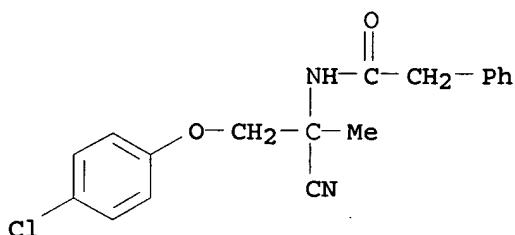
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RL: AGR (Agricultural use); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aminoacetonitrile derivs. as agricultural and horticultural insecticides)

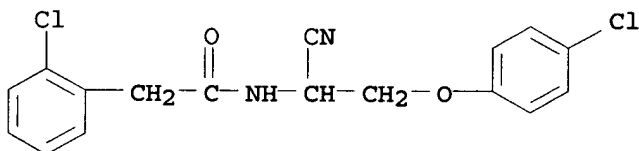
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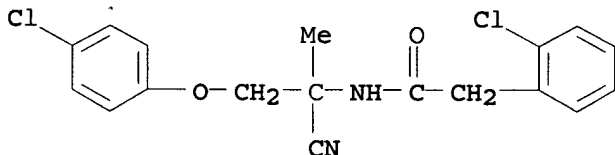
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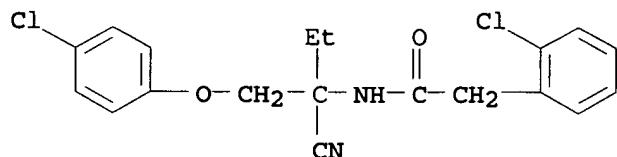
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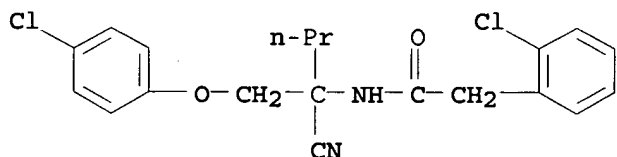
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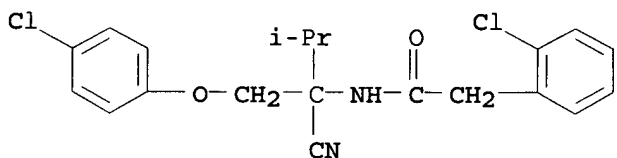
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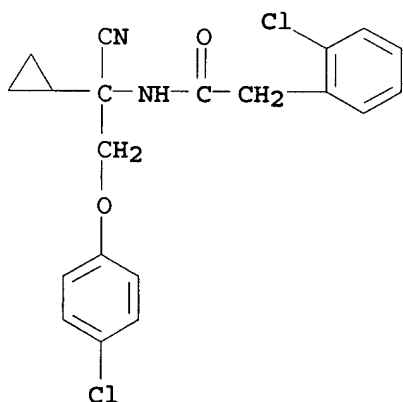
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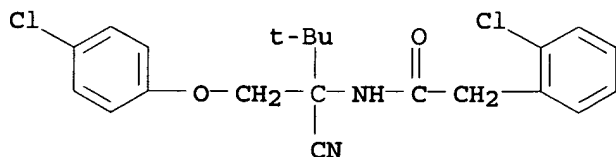
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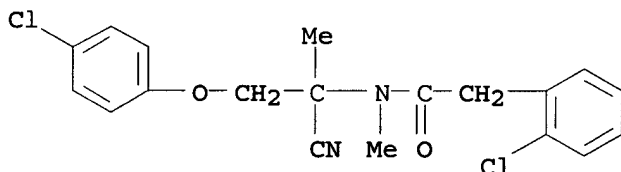
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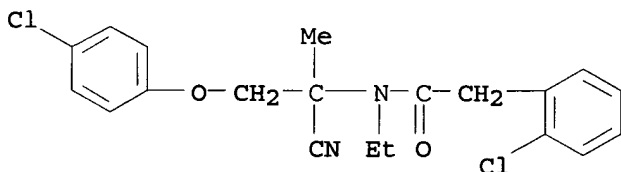
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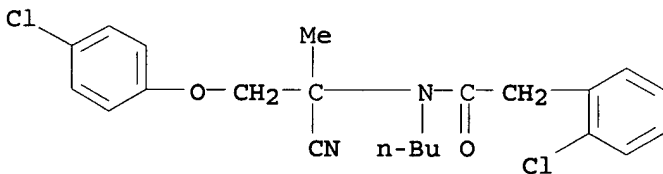
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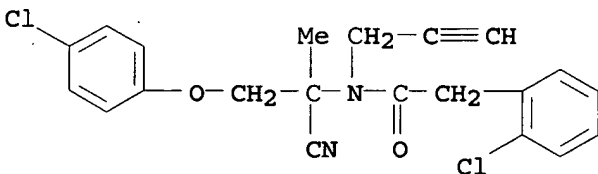
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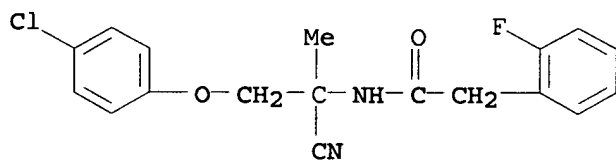
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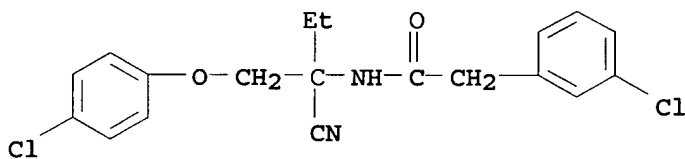
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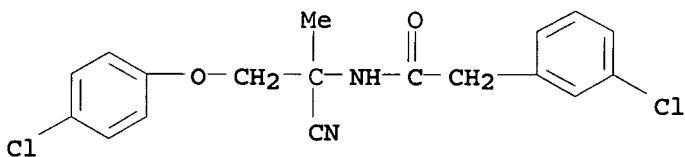
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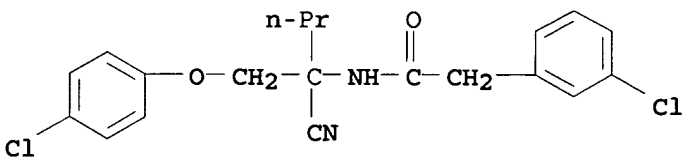
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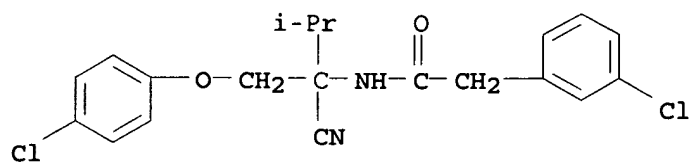
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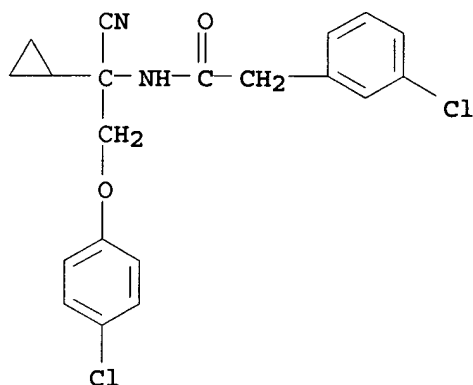
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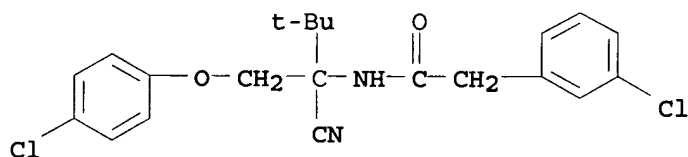
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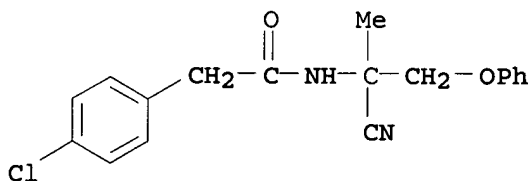
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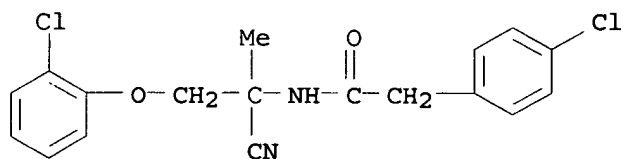
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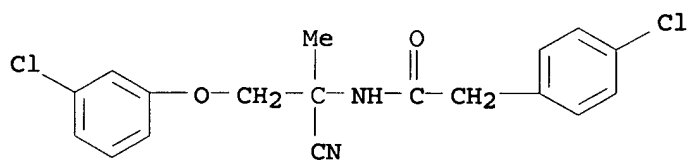


RN 247197-74-6 HCAPLUS

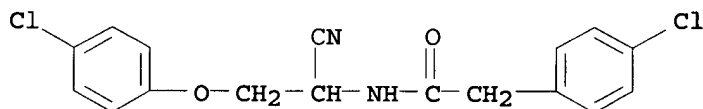
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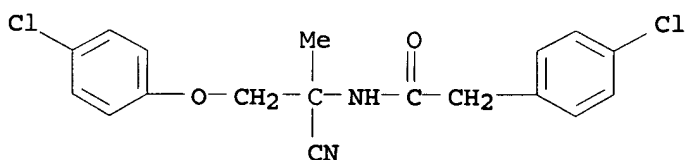
RN 247197-76-8 HCAPLUS
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 (9CI) (CA INDEX NAME)



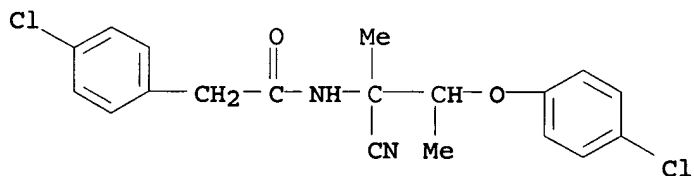
RN 247197-77-9 HCAPLUS
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 (CA INDEX NAME)



RN 247197-78-0 HCAPLUS
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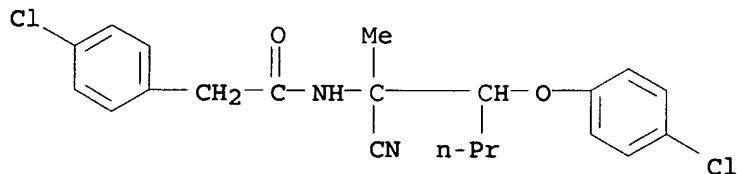


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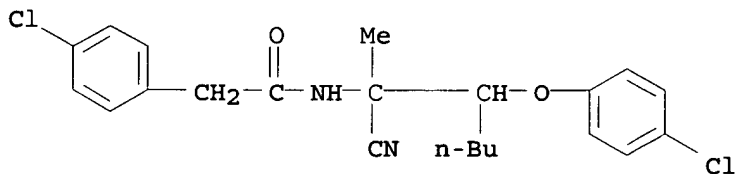
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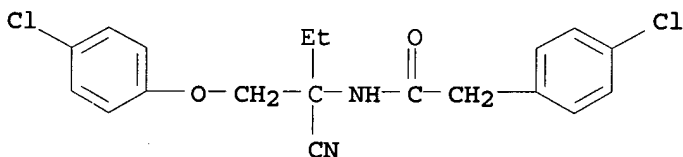
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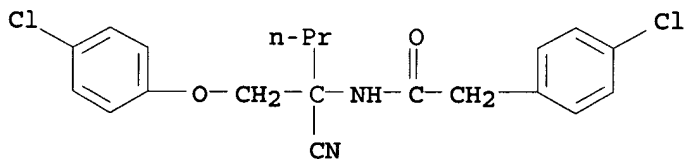
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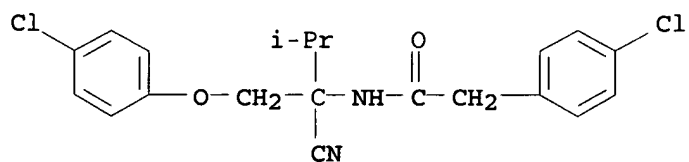
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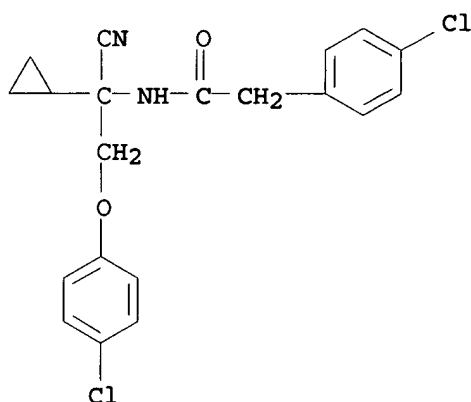
RN 247197-88-2 HCAPLUS

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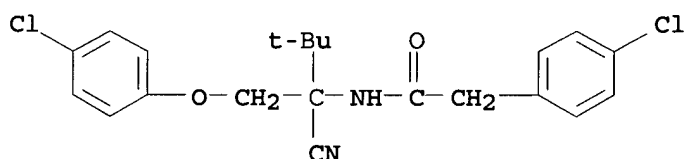
RN 247197-89-3 HCAPLUS

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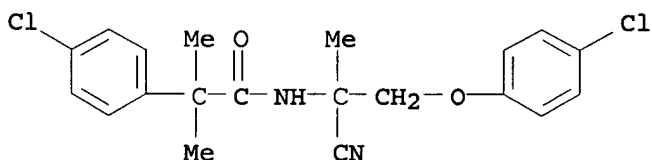
RN 247197-90-6 HCAPLUS

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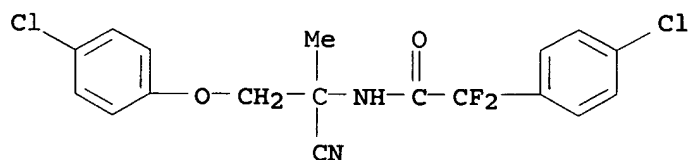
RN 247197-96-2 HCAPLUS

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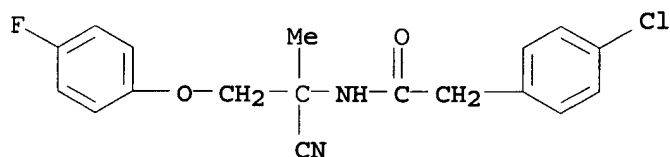
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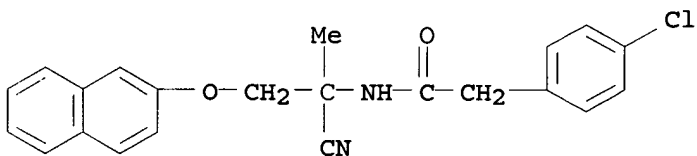
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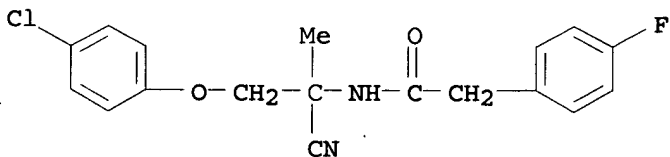
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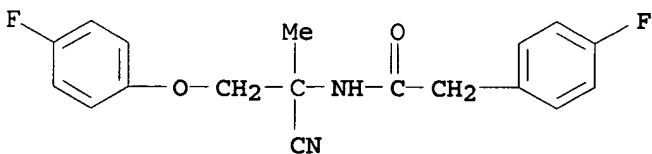
RN 247198-31-8 HCAPLUS

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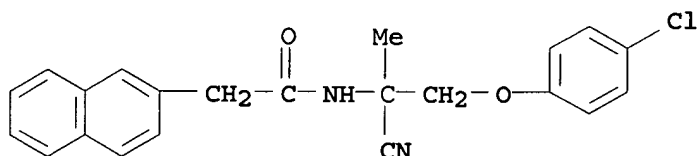
RN 247198-33-0 HCAPLUS

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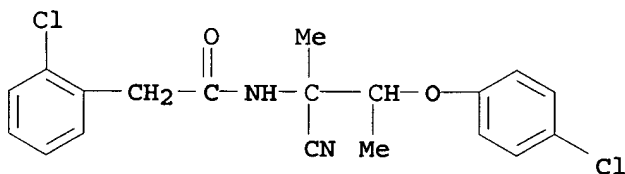
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(9CI) (CA INDEX NAME)



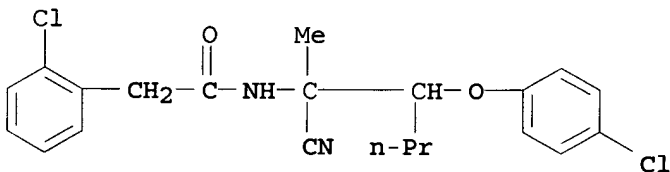
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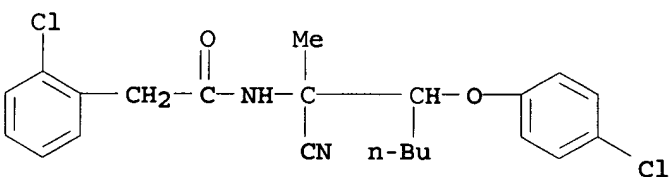
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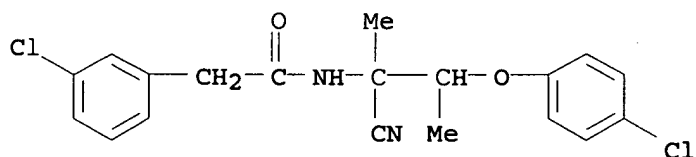
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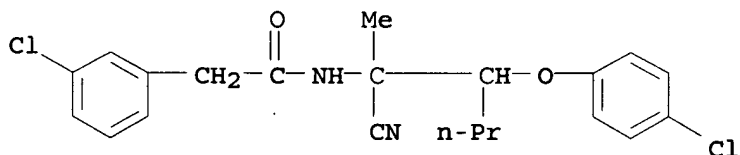


RN 736172-76-2 HCAPLUS

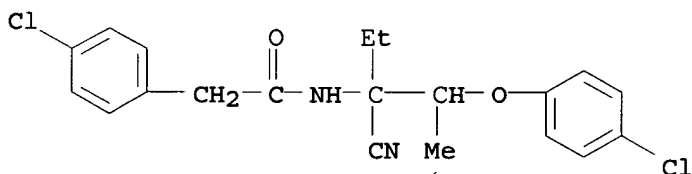
CN Benzeneacetamide, 3-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]-
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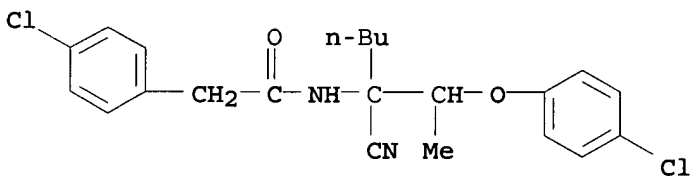
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 CN Benzeneacetamide, 3-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylpentyl]-
 (9CI) (CA INDEX NAME)



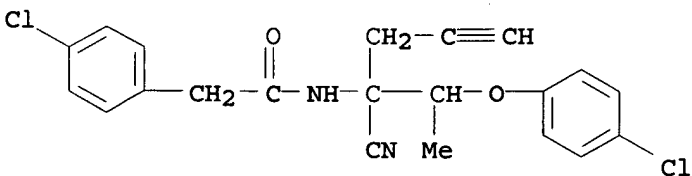
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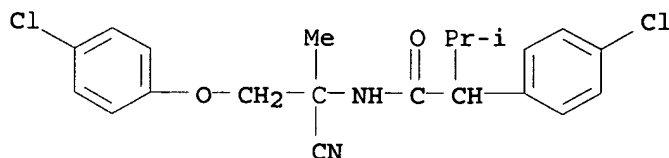
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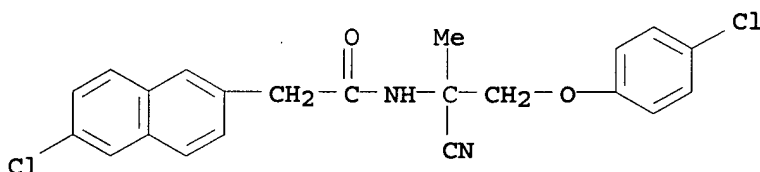
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RN 736172-82-0 HCAPLUS
 CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-
 α-(1-methylethyl)- (9CI) (CA INDEX NAME)



RN 736172-90-0 HCAPLUS
 CN 2-Naphthaleneacetamide, 6-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI) (CA INDEX NAME)



L74 ANSWER 2 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN
 AN 2002:594606 HCAPLUS
 DN 137:135058
 TI Pharmaceutical composition containing aminoacetonitrile compounds for
 control of endoparasitic pests in animals
 IN Ducray, Pierre; Bouvier, Jacques
 PA Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft M.B.H.
 SO PCT Int. Appl., 36 pp.
 CODEN: PIXXD2

DT Patent
 LA English

FAN.CNT 1

applicants

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI WO 2002060257	A1	20020808	WO 2002-EP568	20020121
W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LT, LU, LV, MA, MD, MK, MN, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SE, SG, SI, SK, TJ, TM, TN, TR, TT, UA, US, UZ, VN, YU, ZA, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR				
CA 2429493	AA	20020808	CA 2002-2429493	20020121
EP 1367891	A1	20031210	EP 2002-719711	20020121
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
BR 2002006576	A	20031216	BR 2002-6576	20020121
JP 2004524299	T2	20040812	JP 2002-560463	20020121
ZA 2003004017	A	20040709	ZA 2003-4017	20030523
US 2004044074	A1	20040304	US 2003-466824	20030721
US 2004063766	A1	20040401	US 2003-677972	20031002

PRAI CH 2001-97 A 20010122
 WO 2002-EP568 W 20020121
 US 2003-466824 A3 20030721

OS MARPAT 137:135058

AB Aminoacetonitrile compds. (Ar1) (R1) (R2)CC(:O)N(R3)C(R4) (CN)CH(R5)OAr2
 (Markush included) are used to control of endoparasites, especially helminths,
 in warm-blooded productive livestock and domestic animals.

IC ICM A01N037-34
 ICS A61K031-277

CC 1-5 (Pharmacology)
 Section cross-reference(s): 5, 63

ST aminoacetonitrile parasiticide anthelmintic livestock domestic animal;
 pharmaceutical aminoacetonitrile endoparasite helminth livestock

IT Drug delivery systems
 (bolus; pharmaceutical composition containing aminoacetonitrile compds. for
 control of endoparasites in animals)

IT Parasiticides
 (endoparasiticides; pharmaceutical composition containing aminoacetonitrile
 compds. for control of endoparasites in animals)

IT Drug delivery systems
 (granules; pharmaceutical composition containing aminoacetonitrile compds.
 for
 control of endoparasites in animals)

IT Kaolin, uses
 Peanut oil
 Polyoxyalkylenes, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (in pharmaceutical composition containing aminoacetonitrile compds. for
 control
 of endoparasites in animals)

IT Drug delivery systems
 (injections; pharmaceutical composition containing aminoacetonitrile
 compds. for
 control of endoparasites in animals)

IT Domestic animal
 Livestock
 (pharmaceutical composition containing aminoacetonitrile compds. for
 control of
 endoparasites in)

IT Anthelmintics
 Pesticide formulations
 (pharmaceutical composition containing aminoacetonitrile compds. for
 control of
 endoparasites in animals)

IT Castor oil
 RL: MOA (Modifier or additive use); USES (Uses)
 (polyethoxylated; in pharmaceutical composition containing aminoacetonitrile
 compds. for control of endoparasites in animals)

IT Fats and Glyceridic oils, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (sesame; in pharmaceutical composition containing aminoacetonitrile compds.
 for
 control of endoparasites in animals)

IT Drug delivery systems
 (solns.; pharmaceutical composition containing aminoacetonitrile compds. for
 control of endoparasites in animals)

IT Drug delivery systems
 (tablets; pharmaceutical composition containing aminoacetonitrile compds.
 for
 control of endoparasites in animals)

IT Drug delivery systems
 (topical, pour-on; pharmaceutical composition containing aminoacetonitrile
 compds. for control of endoparasites in animals)

IT Glycerides, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (triglycerides, medium-chained; in pharmaceutical composition containing
 aminoacetonitrile compds. for control of endoparasites in animals)

IT 9005-25-8, Starch, uses
 RL: MOA (Modifier or additive use); USES (Uses)
 (corn; in pharmaceutical composition containing aminoacetonitrile compds.
 for
 control of endoparasites in animals)

IT 63-42-3, Lactose
 RL: MOA (Modifier or additive use); USES (Uses)
 (crystalline; in pharmaceutical composition containing aminoacetonitrile
 compds. for
 control of endoparasites in animals)

IT 57-55-6, 1,2-Propanediol, uses 64-17-5, Ethanol, uses 67-63-0,
 Isopropanol, uses 100-51-6, Benzyl alcohol, uses 100-79-8, Glycerol
 dimethyl ketal 110-27-0, Isopropyl myristate 557-04-0, Magnesium
 stearate 872-50-4, N-Methylpyrrolidone, uses 1343-98-2, Silicic acid
 5464-28-8, 4-Hydroxymethyl-1,3-Dioxolane 9004-67-5, Methylcellulose
 9005-65-6 12174-11-7, Attapulgate 25322-68-3, Polyethylene glycol
 34316-64-8, Hexyl laurate
 RL: MOA (Modifier or additive use); USES (Uses)
 (in pharmaceutical composition containing aminoacetonitrile compds. for
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 of endoparasites in animals)

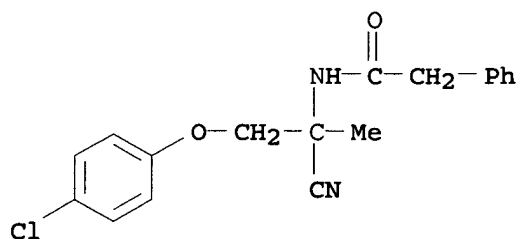
IT 9004-34-6, Cellulose, uses
 RL: MOA (Modifier or additive use); USES (Uses)
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 compds.
 for control of endoparasites in animals)

IT 540-61-4D, Aminoacetonitrile, derivs. 247197-14-4 247197-15-5
 247197-20-2 247197-22-4 247197-37-1
 247197-39-3 247197-41-7 247197-43-9
 247197-47-3 247197-50-8 247197-52-0
 247197-54-2 247197-56-4 247197-57-5
 247197-62-2 247197-66-6 247197-67-7
 444881-92-9 444881-93-0
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
 THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical antiparasitic composition containing)

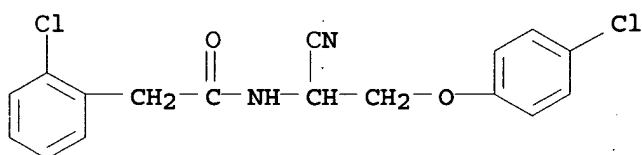
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 247197-66-6 247197-67-7 444881-92-9
 444881-93-0
 RL: BSU (Biological study, unclassified); PAC (Pharmacological activity);
 THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 (pharmaceutical antiparasitic composition containing)

RN 247197-14-4 HCAPLUS

CN Benzeneacetamide, N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI)
 (CA INDEX NAME)

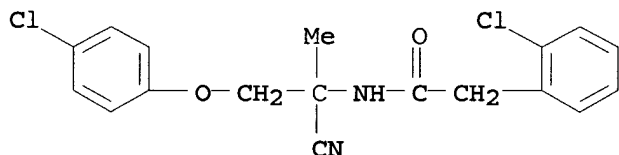


RN 247197-20-2 HCAPLUS

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(CA INDEX NAME)

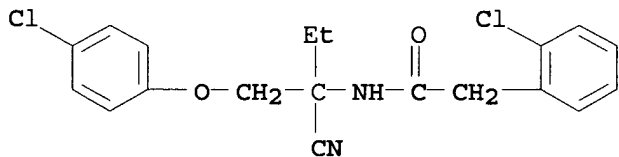
RN 247197-22-4 HCAPLUS

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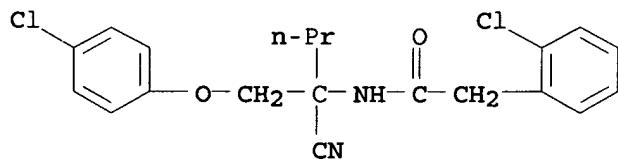
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CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanopropyl]- (9CI) (CA INDEX NAME)



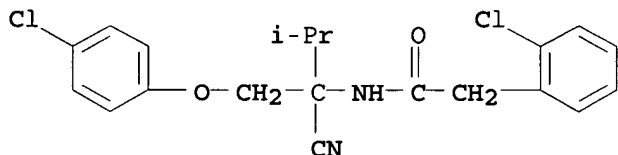
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CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanobutyl]- (9CI) (CA INDEX NAME)



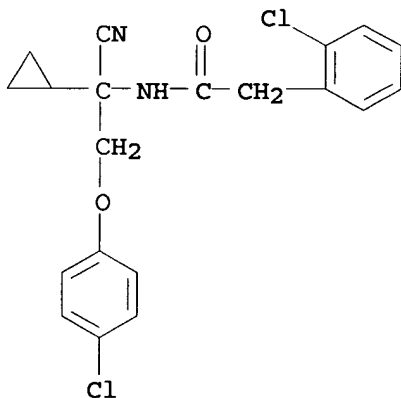
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CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2-methylpropyl]- (9CI) (CA INDEX NAME)



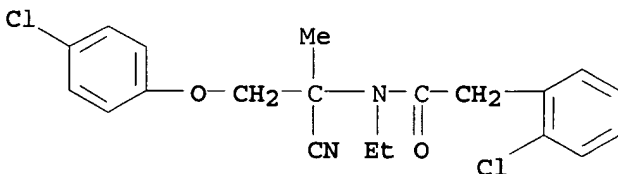
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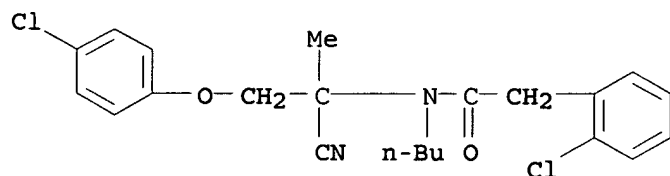
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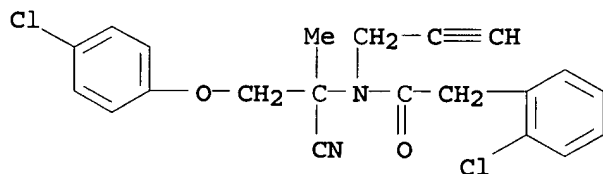
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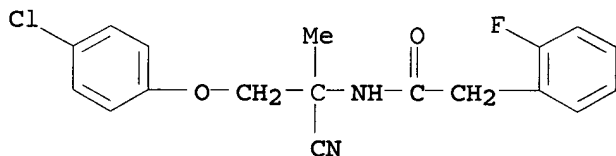
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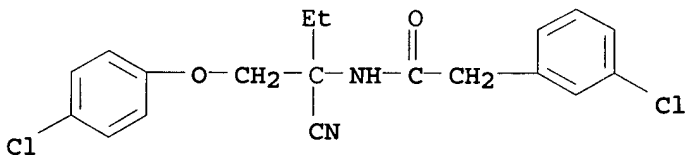
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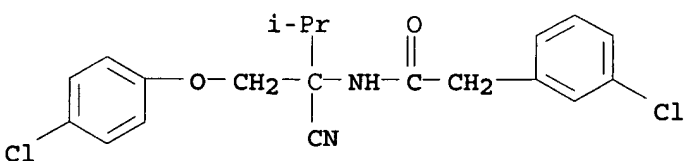
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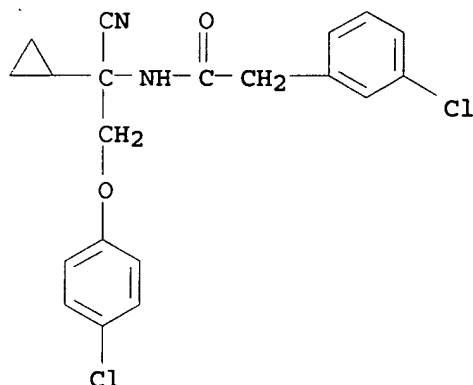
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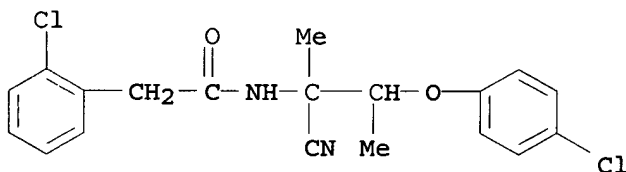
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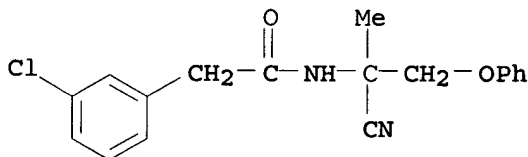
RN 444881-92-9 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]- (9CI) (CA INDEX NAME)



RN 444881-93-0 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-(1-cyano-1-methyl-2-phenoxyethyl)- (9CI) (CA INDEX NAME)



RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

L74 ANSWER 3 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 2002:487395 HCAPLUS

DN 137:52407

TI Aminoacetonitrile compounds and their formulations as parasiticides

IN Ducray, Pierre; Bouvier, Jacques

PA Novartis Ag, Switz.; Novartis-Erfindungen Verwaltungsgesellschaft m.b.H.;
Novartis Pharma GmbH

SO PCT Int. Appl., 38 pp.

CODEN: PIXXD2

DT Patent
 LA English
 FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2002049641	A2	20020627	WO 2001-EP14926	20011218
	WO 2002049641	A3	20031204		
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	RW:				
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	CA 2432388	AA	20020627	CA 2001-2432388	20011218
	AU 2002034588	A5	20020701	AU 2002-34588	20011218
	EP 1392281	A2	20040303	EP 2001-985421	20011218
	R:				
	AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR				
	BR 2001016326	A	20040706	BR 2001-16326	20011218
	JP 2004521097	T2	20040715	JP 2002-550981	20011218
	ZA 2003004331	A	20040428	ZA 2003-4331	20030603
	US 2004082624	A1	20040429	US 2003-433811	20030606
PRAI	CH 2000-2489	A	20001220		
	WO 2001-EP14926	W	20011218		

OS MARPAT 137:52407

AB The invention relates to the use of aminoacetonitrile compds. in the control of endoparasites, especially helminths, in warm-blooded productive livestock and domestic animals. Delivery systems for these parasiticides are described, such as granules that can be mixed with animal feed. For example, a dust-free coated granules were prepared by mixing an aminoacetonitrile active ingredient 3%, polyethylene glycol 3%, and kaolin 94%.

IC ICM A61K031-277

ICS A61K031-44; A61P033-00

CC 63-6 (Pharmaceuticals)

Section cross-reference(s): 1, 17

ST aminoacetonitrile compd parasiticide domestic animal livestock;
 anthelmintic aminoacetonitrile compd delivery system

IT Anthelmintics

Dispersing agents

Domestic animal

Livestock

Parasiticides

(aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

IT Kaolin, biological studies

Peanut oil

Polyoxyalkylenes, biological studies

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

IT Feed additives

(aminoacetonitrile compds. and their formulations used in feed as parasiticides for domestic animals and livestock)

IT Drug delivery systems

(bolus; aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

IT Castor oil

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(ethoxylated; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Drug delivery systems
(granules; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Meriones unguiculatus
(infestation of; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Haemonchus contortus
Trichostrongylus colubriformis
(infestation with; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Drug delivery systems
(injections; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Glycerides, biological studies
RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)
(medium-chain; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Drug delivery systems
(solns.; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Drug delivery systems
(tablets; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

IT Drug delivery systems
(topical, pour-on; aminoacetonitrile compds. and their formulations as
parasiticides for domestic animals and livestock)

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RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

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(aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

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RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

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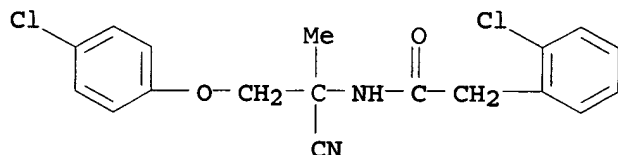
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(Biological study); USES (Uses)

(aminoacetonitrile compds. and their formulations as parasiticides for domestic animals and livestock)

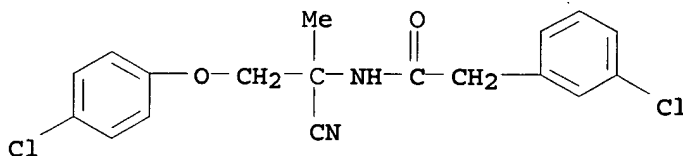
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(9CI) (CA INDEX NAME)



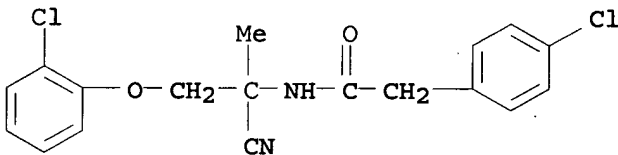
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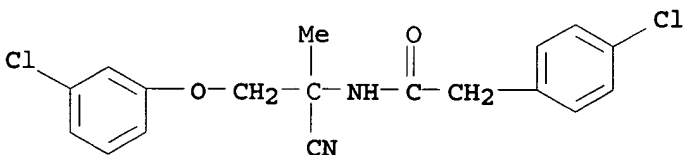
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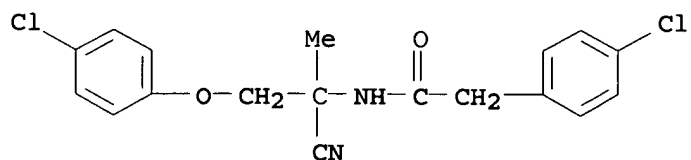
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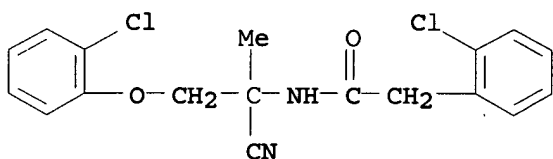


RN 247197-78-0 HCAPLUS

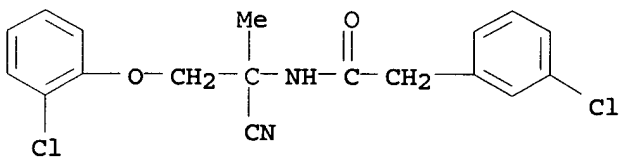
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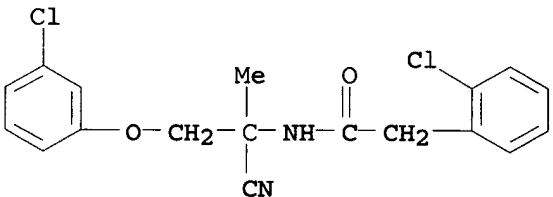
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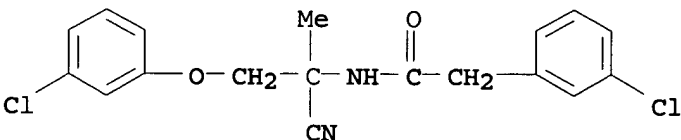
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(9CI) (CA INDEX NAME)



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CN Benzeneacetamide, 3-chloro-N-[2-(3-chlorophenoxy)-1-cyano-1-methylethyl]-
(9CI) (CA INDEX NAME)



L74 ANSWER 4 OF 4 HCAPLUS COPYRIGHT 2005 ACS on STN

AN 1999:708444 HCAPLUS

DN 131:310455

TI Preparation of aroylaminoacetoneitriles as agricultural and horticultural insecticides

IN Andoh, Nobuharu; Sanpei, Osamu; Sakata, Kazuyuki

PA Nihon Nohyaku Co., Ltd., Japan

SO Eur. Pat. Appl., 63 pp.

CODEN: EPXXDW

DT Patent

LA English

FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	EP 953565	A2	19991103	EP 1999-107461	19990428
	EP 953565	A3	20021204		
	EP 953565	B1	20040908		
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	US 6239077	B1	20010529	US 1999-295319	19990421
	TW 585849	B	20040501	TW 1999-88106732	19990427
	EP 1445251	A1	20040811	EP 2004-10346	19990428
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	CN 1234177	A	19991110	CN 1999-105289	19990430
	CN 1132516	B	20031231		
	AU 9926027	A1	19991111	AU 1999-26027	19990430
	AU 752112	B2	20020905		
	JP 2000026392	A2	20000125	JP 1999-124560	19990430
PRAI	JP 1998-137806	A	19980501		
	EP 1999-107461	A3	19990428		

OS MARPAT 131:310455

AB Ar1QdCONR3C(CN)R4(CR5R6)aW(CR7R8)bAr2 [I; Ar1, Ar2 = (substituted) Ph, PhO, pyridyl, pyridyloxy, naphthyl; Q = CR1R2; R1, R2 = H, halo, (halo)alkyl, (halo)alkoxy, (substituted) cycloalkyl; R1R2 = (substituted) C2-6 alkylene, CH:CH, C.tplbond.C; d = 0, 1; R3 = H, (halo)alkyl; R4-R8 = H, halo, (halo)alkyl; W = O, S, SO2, NR9; R9 = H, alkyl; a, b = 0-4], were prepared Thus, 4-chlorophenol, bromoacetaldehyde di-Me acetal, K2CO3, and cat. NaI were refluxed 3 h in DMF to give 4-chlorophenoxyacetaldehyde di-Me acetal. This was refluxed with aqueous HCl in acetone to give crude 4-chlorophenoxyacetaldehyde, which was stirred with NaCN and NH4Cl in aqueous NH3 to give a residue. This was stirred with 4-chlorophenylacetyl chloride and Et3N in THF to give I (Ar1, Ar2 = 4-ClC6H4; R1-R8 = H; W = O; a, d = 1; b = 0). Numerous I at 500 ppm gave 100% kill of Plutella xylostella on cabbage seedlings.

IC ICM C07C255-26

ICS A01N037-34; C07C317-14

CC 25-20 (Benzene, Its Derivatives, and Condensed Benzenoid Compounds)

Section cross-reference(s): 5

ST aroylaminoacetoneitrile prepn agricultural horticultural insecticide;

pesticide aroylaminoacetoneitrile

IT Insecticides

Pesticides

(preparation of aroylaminoacetoneitriles as agricultural and horticultural insecticides)

IT Nitriles, preparation

RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of aroylaminoacetoneitriles as agricultural and horticultural

insecticides)

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RL: AGR (Agricultural use); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation); USES (Uses)
 (preparation of aroylaminoacetonitriles as agricultural and horticultural

insecticides)

IT 247199-64-0P 247199-65-1P 247199-66-2P 247199-67-3P 247199-68-4P
 247199-69-5P 247199-70-8P 247199-71-9P 247199-72-0P 247199-73-1P
 247199-74-2P 247199-75-3P 247199-76-4P 247199-77-5P 247199-78-6P
 247199-79-7P 247199-80-0P 247199-81-1P 247199-82-2P 247199-83-3P
 247199-84-4P 247199-85-5P 247199-86-6P 247199-87-7P 247199-88-8P
 247199-89-9P 247199-90-2P 247199-91-3P 247199-92-4P 247199-93-5P
 247199-94-6P 247199-95-7P 247201-37-2P
 RL: AGR (Agricultural use); BAC (Biological activity or effector, except
 adverse); BSU (Biological study, unclassified); SPN (Synthetic
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 (preparation of aroylaminoacetonitriles as agricultural and horticultural
 insecticides)

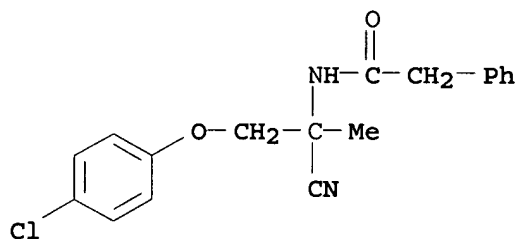
IT 75-04-7, Ethylamine, reactions 78-95-5, Chloroacetone 104-01-8,
 4-Methoxyphenylacetic acid 106-48-9, 4-Chlorophenol 637-44-5
 1878-66-6, 4-Chlorophenylacetic acid 7252-83-7, Bromoacetaldehyde
 dimethyl acetal 25026-34-0, 4-Chlorophenylacetyl chloride 247199-99-1
 247200-00-6 247200-01-7
 RL: RCT (Reactant); RACT (Reactant or reagent)
 (preparation of aroylaminoacetonitriles as agricultural and horticultural
 insecticides)

IT 18859-35-3P, 4-Chlorophenoxyacetone 227802-36-0P 247199-97-9P
 247199-98-0P
 RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT
 (Reactant or reagent)
 (preparation of aroylaminoacetonitriles as agricultural and horticultural
 insecticides)

IT 247197-14-4P 247197-16-6P 247197-20-2P
 247197-22-4P 247197-24-6P 247197-25-7P
 247197-27-9P 247197-29-1P 247197-31-5P
 247197-33-7P 247197-37-1P 247197-39-3P
 247197-41-7P 247197-43-9P 247197-45-1P
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 247197-62-2P 247197-63-3P 247197-65-5P
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 RL: AGR (Agricultural use); BAC (Biological activity or effector, except
 adverse); BSU (Biological study, unclassified); SPN (Synthetic
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 (preparation of aroylaminoacetonitriles as agricultural and horticultural
 insecticides)

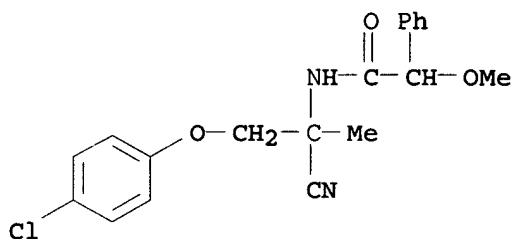
RN 247197-14-4 HCAPLUS

CN Benzeneacetamide, N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI)
 (CA INDEX NAME)



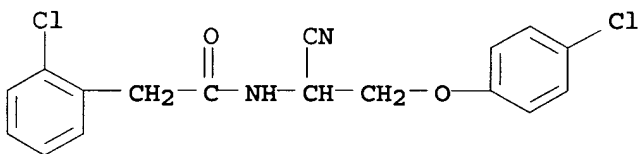
RN 247197-16-6 HCAPLUS

CN Benzeneacetamide, N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-α-methoxy- (9CI) (CA INDEX NAME)



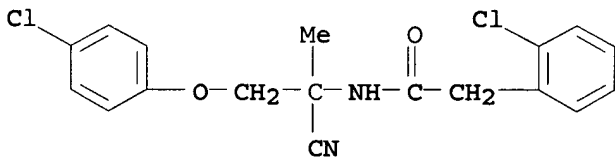
RN 247197-20-2 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyanoethyl]- (9CI) (CA INDEX NAME)



RN 247197-22-4 HCAPLUS

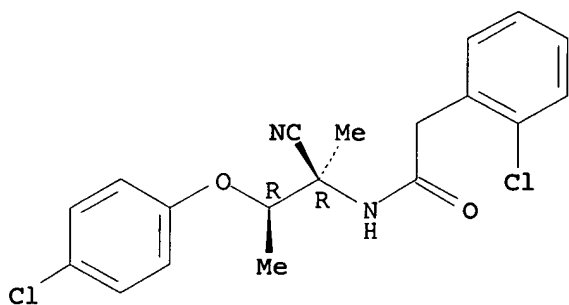
CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI) (CA INDEX NAME)



RN 247197-24-6 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[(1R,2R)-2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]-, rel- (9CI) (CA INDEX NAME)

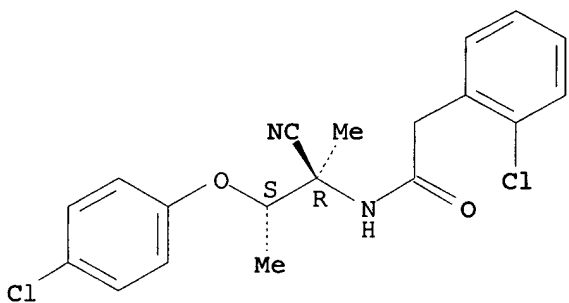
Relative stereochemistry.



RN 247197-25-7 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[(1R,2S)-2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]-, rel- (9CI) (CA INDEX NAME)

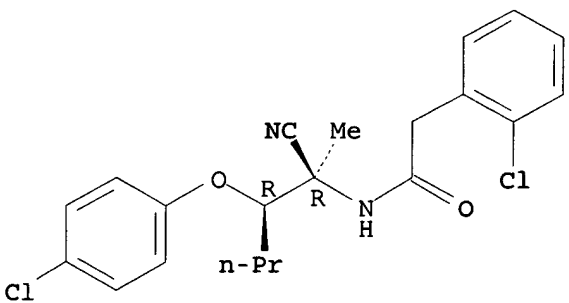
Relative stereochemistry.



RN 247197-27-9 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[(1R,2R)-2-(4-chlorophenoxy)-1-cyano-1-methylpentyl]-, rel- (9CI) (CA INDEX NAME)

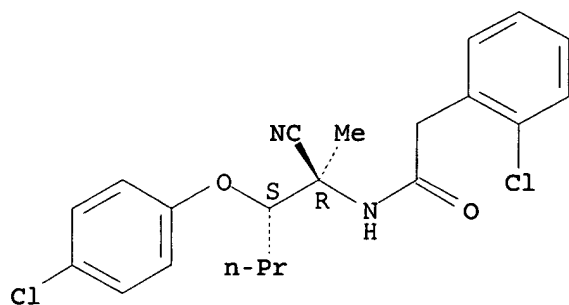
Relative stereochemistry.



RN 247197-29-1 HCAPLUS

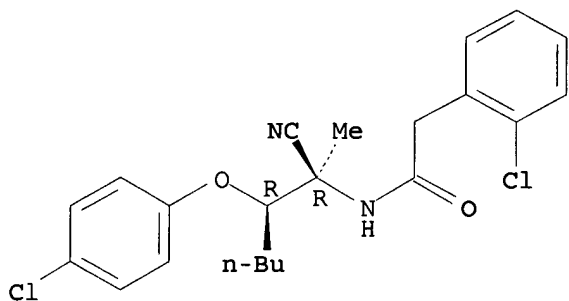
CN Benzeneacetamide, 2-chloro-N-[(1R,2S)-2-(4-chlorophenoxy)-1-cyano-1-methylpentyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



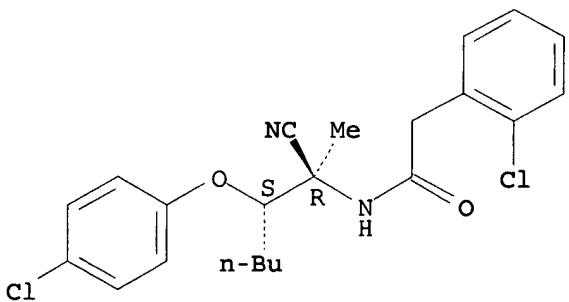
RN 247197-31-5 HCAPLUS
CN Benzeneacetamide, 2-chloro-N-[(1R,2R)-2-(4-chlorophenoxy)-1-cyano-1-methylhexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

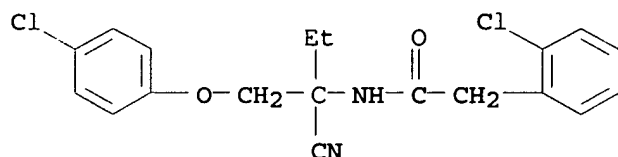


RN 247197-33-7 HCAPLUS
CN Benzeneacetamide, 2-chloro-N-[(1R,2S)-2-(4-chlorophenoxy)-1-cyano-1-methylhexyl]-, rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.

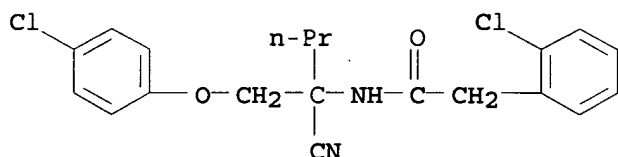


RN 247197-37-1 HCAPLUS
CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanopropyl]- (9CI) (CA INDEX NAME)



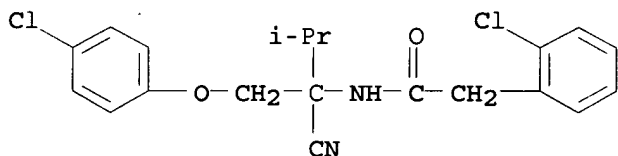
RN 247197-39-3 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanobutyl]- (9CI) (CA INDEX NAME)



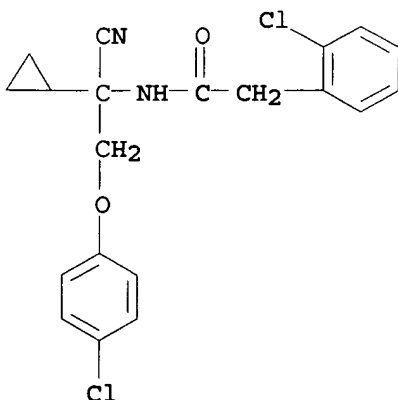
RN 247197-41-7 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2-methylpropyl]- (9CI) (CA INDEX NAME)



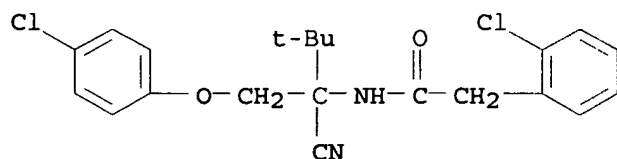
RN 247197-43-9 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-cyclopropylethyl]- (9CI) (CA INDEX NAME)



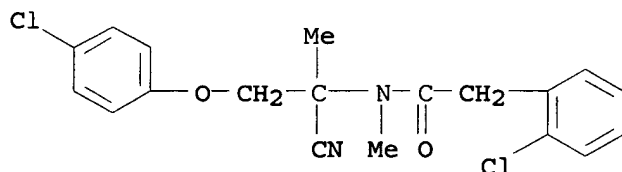
RN 247197-45-1 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2,2-dimethylpropyl]- (9CI) (CA INDEX NAME)



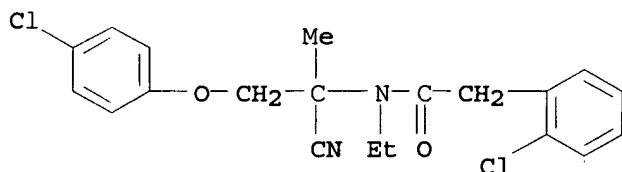
RN 247197-49-5 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-N-methyl- (9CI) (CA INDEX NAME)



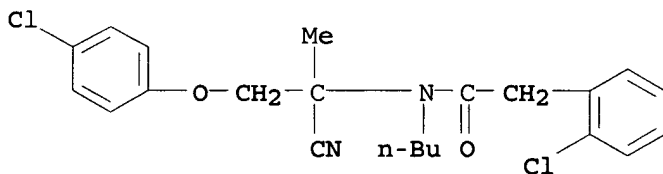
RN 247197-50-8 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-N-ethyl- (9CI) (CA INDEX NAME)



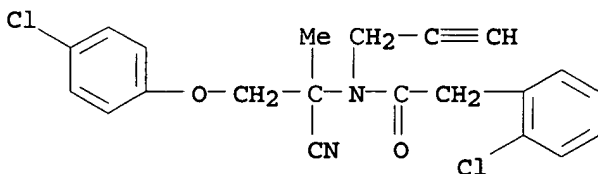
RN 247197-52-0 HCAPLUS

CN Benzeneacetamide, N-butyl-2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI) (CA INDEX NAME)



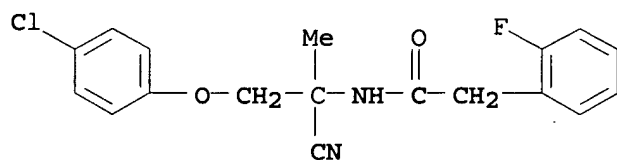
RN 247197-54-2 HCAPLUS

CN Benzeneacetamide, 2-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 247197-56-4 HCAPLUS

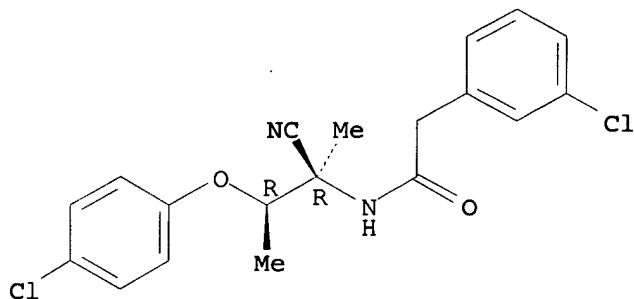
CN Benzeneacetamide, N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-2-fluoro-(9CI) (CA INDEX NAME)



RN 247197-58-6 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[(1R,2R)-2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]-, rel- (9CI) (CA INDEX NAME)

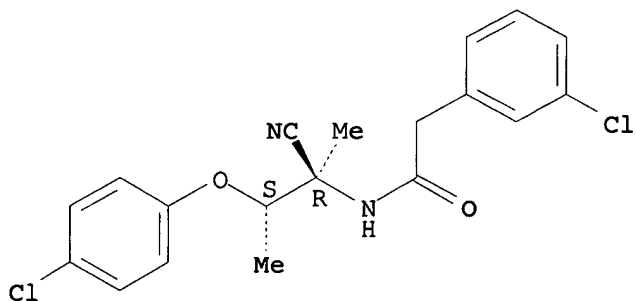
Relative stereochemistry.



RN 247197-59-7 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[(1R,2S)-2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]-, rel- (9CI) (CA INDEX NAME)

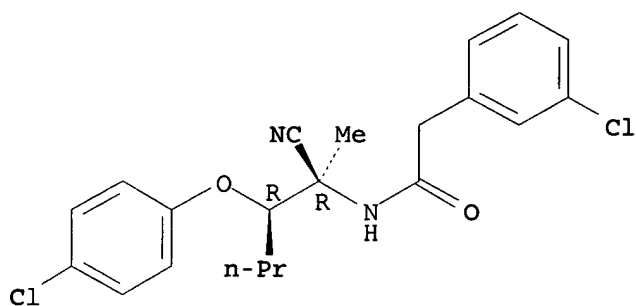
Relative stereochemistry.



RN 247197-60-0 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[(1R,2R)-2-(4-chlorophenoxy)-1-cyano-1-methylpentyl]-, rel- (9CI) (CA INDEX NAME)

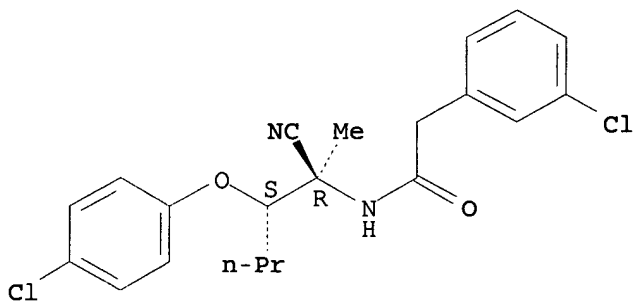
Relative stereochemistry.



RN 247197-61-1 HCAPLUS

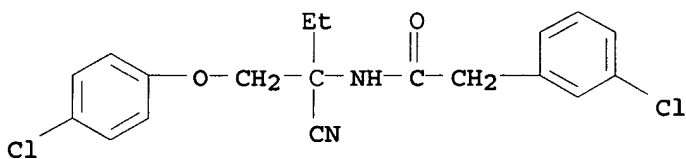
CN Benzeneacetamide, 3-chloro-N-[(1R,2S)-2-(4-chlorophenoxy)-1-cyano-1-methylpentyl]-, rel-(9CI) (CA INDEX NAME)

Relative stereochemistry.



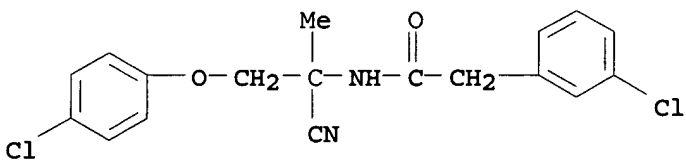
RN 247197-62-2 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanopropyl]- (9CI) (CA INDEX NAME)



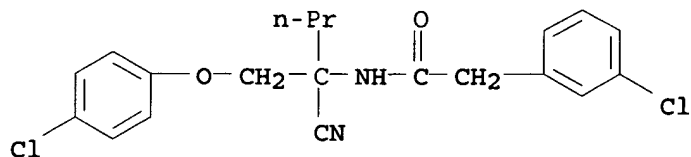
RN 247197-63-3 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI) (CA INDEX NAME)



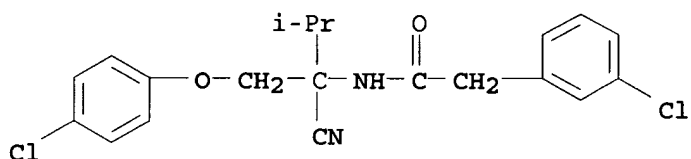
RN 247197-65-5 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanobutyl]-
(9CI) (CA INDEX NAME)



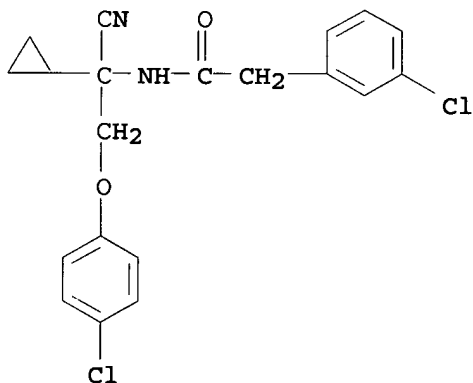
RN 247197-66-6 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2-methylpropyl]- (9CI) (CA INDEX NAME)



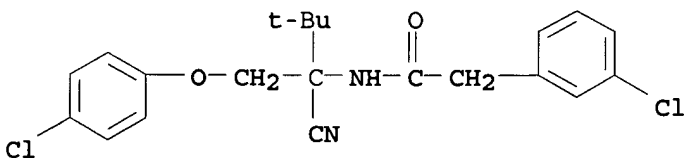
RN 247197-67-7 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-cyclopropylethyl]- (9CI) (CA INDEX NAME)



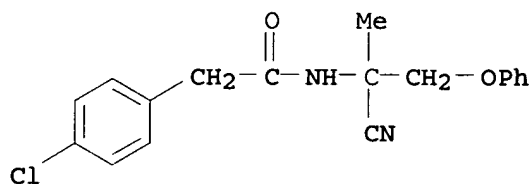
RN 247197-68-8 HCAPLUS

CN Benzeneacetamide, 3-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2,2-dimethylpropyl]- (9CI) (CA INDEX NAME)



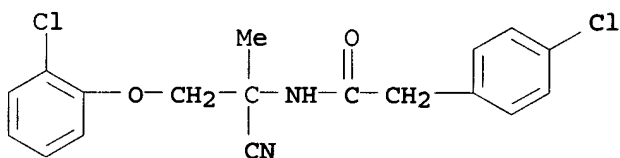
RN 247197-71-3 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-(1-cyano-1-methyl-2-phenoxyethyl) - (9CI) (CA INDEX NAME)



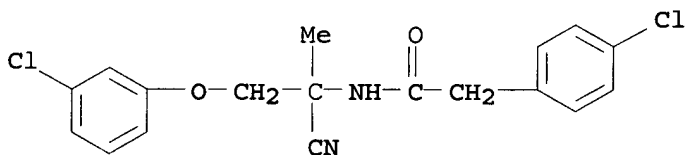
RN 247197-74-6 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(2-chlorophenoxy)-1-cyano-1-methylethyl] - (9CI) (CA INDEX NAME)



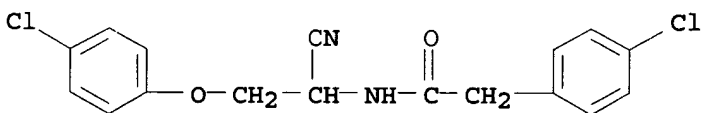
RN 247197-76-8 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(3-chlorophenoxy)-1-cyano-1-methylethyl] - (9CI) (CA INDEX NAME)



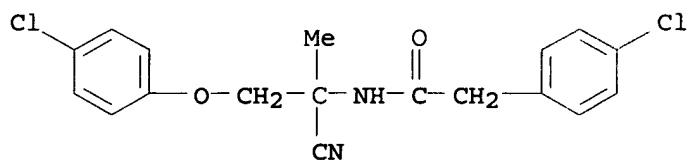
RN 247197-77-9 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyanoethyl] - (9CI) (CA INDEX NAME)



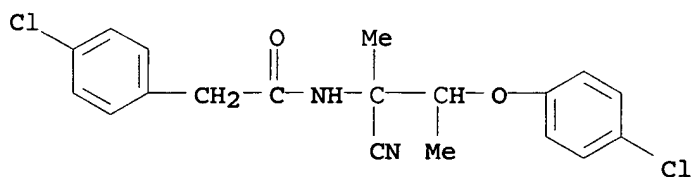
RN 247197-78-0 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl] - (9CI) (CA INDEX NAME)



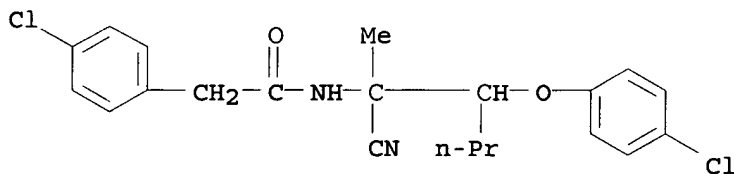
RN 247197-83-7 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylpropyl]- (9CI) (CA INDEX NAME)



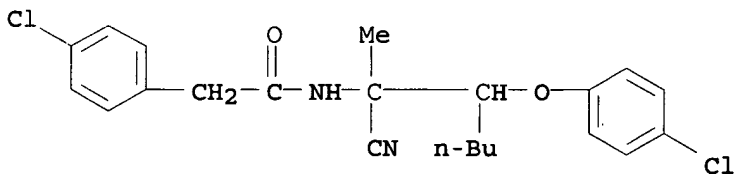
RN 247197-84-8 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylpentyl]- (9CI) (CA INDEX NAME)



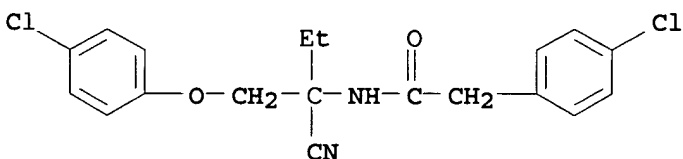
RN 247197-85-9 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylhexyl]- (9CI) (CA INDEX NAME)



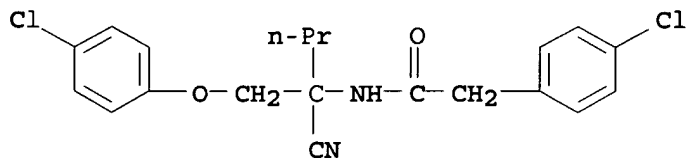
RN 247197-86-0 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanopropyl]- (9CI) (CA INDEX NAME)



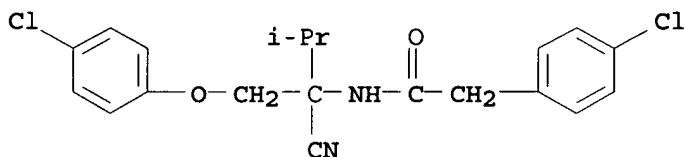
RN 247197-87-1 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyanobutyl]-
(9CI) (CA INDEX NAME)



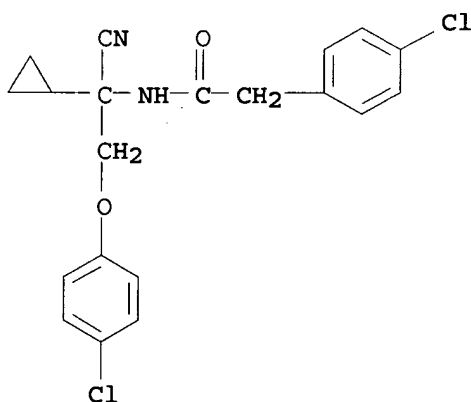
RN 247197-88-2 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2-methylpropyl]- (9CI) (CA INDEX NAME)



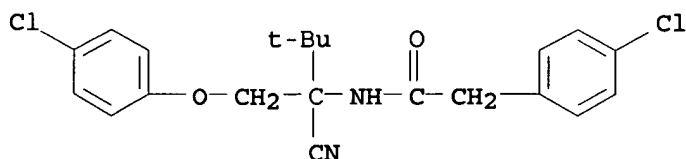
RN 247197-89-3 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-cyclopropylethyl]- (9CI) (CA INDEX NAME)



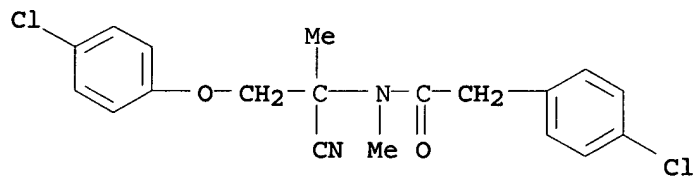
RN 247197-90-6 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-[(4-chlorophenoxy)methyl]-1-cyano-2,2-dimethylpropyl]- (9CI) (CA INDEX NAME)



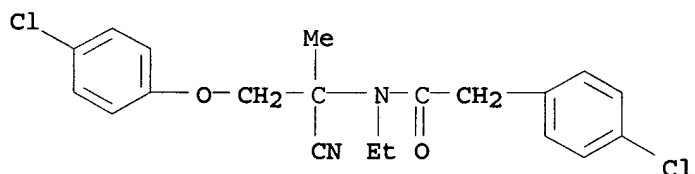
RN 247197-92-8 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-N-methyl- (9CI) (CA INDEX NAME)



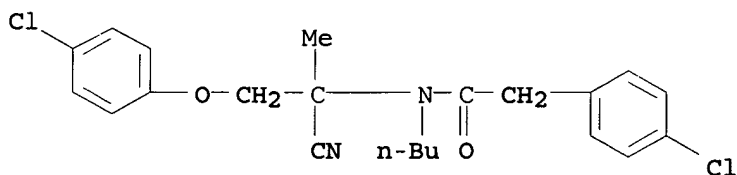
RN 247197-93-9 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-N-ethyl- (9CI) (CA INDEX NAME)



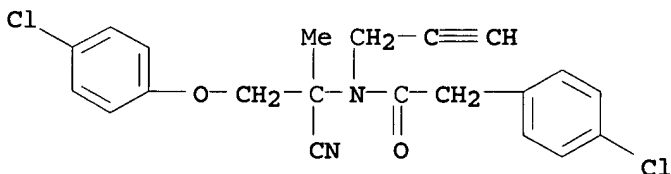
RN 247197-94-0 HCAPLUS

CN Benzeneacetamide, N-butyl-4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]- (9CI) (CA INDEX NAME)



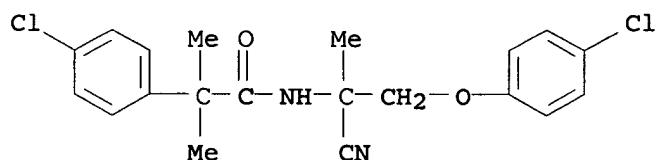
RN 247197-95-1 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-N-2-propynyl- (9CI) (CA INDEX NAME)



RN 247197-96-2 HCAPLUS

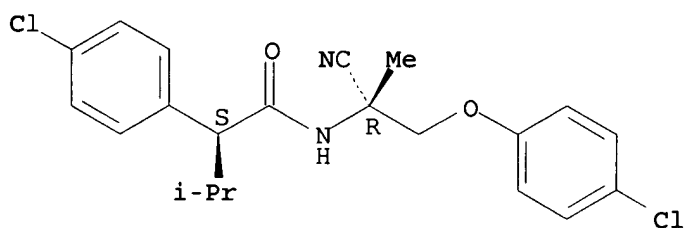
CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-α,α-dimethyl- (9CI) (CA INDEX NAME)



RN 247197-97-3 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[(1R)-2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-α-(1-methylethyl)-, (αS)-rel- (9CI) (CA INDEX NAME)

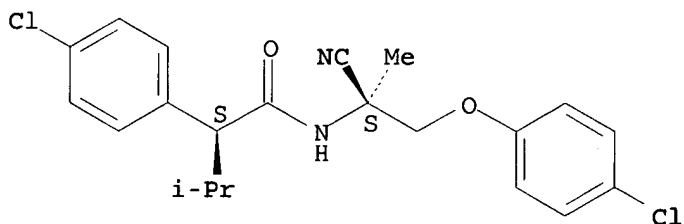
Relative stereochemistry.



RN 247197-98-4 HCAPLUS

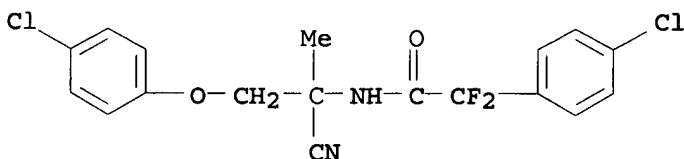
CN Benzeneacetamide, 4-chloro-N-[(1R)-2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-α-(1-methylethyl)-, (αR)-rel- (9CI) (CA INDEX NAME)

Relative stereochemistry.



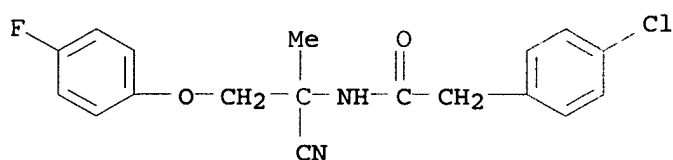
RN 247198-02-3 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-α,α-difluoro- (9CI) (CA INDEX NAME)



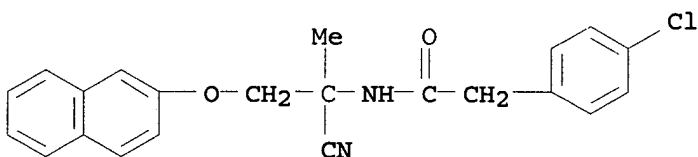
RN 247198-04-5 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-cyano-2-(4-fluorophenoxy)-1-methylethyl]- (9CI) (CA INDEX NAME)



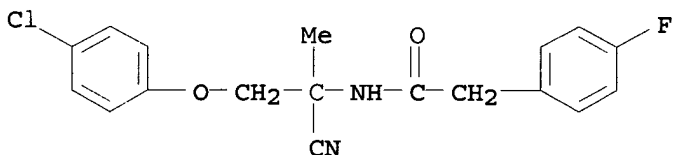
RN 247198-30-7 HCAPLUS

CN Benzeneacetamide, 4-chloro-N-[1-cyano-1-methyl-2-(2-naphthalenyloxy)ethyl]-(9CI) (CA INDEX NAME)



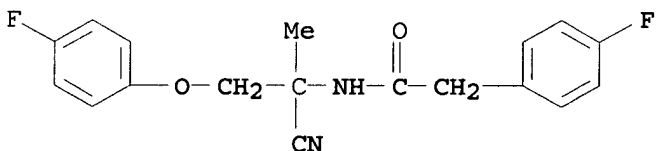
RN 247198-31-8 HCAPLUS

CN Benzeneacetamide, N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-4-fluoro-(9CI) (CA INDEX NAME)



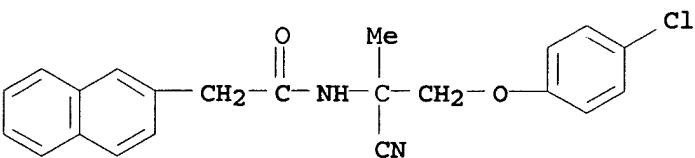
RN 247198-33-0 HCAPLUS

CN Benzeneacetamide, N-[1-cyano-2-(4-fluorophenoxy)-1-methylethyl]-4-fluoro-(9CI) (CA INDEX NAME)



RN 247199-04-8 HCAPLUS

CN 2-Naphthaleneacetamide, N-[2-(4-chlorophenoxy)-1-cyano-1-methylethyl]-(9CI) (CA INDEX NAME)



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